DEPARTMENT OF MATHEMATICS
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL

Title	Dr.	First Name	**NAMITA**	Last Name		Photograph

Designation	**Assistant Professor**
Address	Dyal Singh College Lodhi Road New Delhi
Phone No Office **Residence**	
Mobile	**9999058989**
Email	namita.maths@dsc.du.ac.in
Web-Page	**http://dsc.du.ac.in/faculty**

Educational Qualifications

Degree	Institution	Year
Ph.D. (Mathematics) (Title-MDS and Perfect Codes in Poset Block Spaces)	University of Delhi	**2017**
M.Phil. (Mathematics) (Title-Perfectness of Codes in Generalized Hamming Spaces)	University of Delhi	**2014, 90.8%**
M.Sc. Mathematics	St. Stephen's College University of Delhi	**2012, 90.75%**
B.Sc.(Hons.) Mathematics	Hindu college University of Delhi	**2010, 92%**

Career Profile

- August-November 2015: Assistant Professor (Guest), Hans Raj College.
- July 2016-till date: Assistant Professor (Ad-hoc), Dyal Singh College.

Administrative Assignments (From 1st July 2017 onwards)

- Member of the timetable committee
- Member of the admission committee

Areas of Interest / Specialization

- Algebraic Coding Theory,
- Cryptography,
- Abstract Algebra
- Linear Algebra

Subjects Taught

- Cryptography
- Group Theory- I
- Group Theory -II
- Ring Theory and Linear Algebra- I
- Ring Theory and Linear Algebra- II
- Probability Theory and Statistics
- Numerical Methods

Research Guidance

Publications Profile (From 1st July 2017 onwards)

- B.K. Dass, **Namita Sharma** and Rashmi Verma, The packing radius of a poset block code, *Discrete Mathematics, Algorithms and Applications*, vol. 7, no. 4, 1550045 (10 pages), 2015. **(Scopus)**
- B.K. Dass, **Namita Sharma** and Rashmi Verma, Perfect codes in poset block spaces, *Asian-European Journal of Mathematics*, vol. 10, no. 1, 1750005 (12 pages), 2017. **(Scopus)**
- B.K. Dass, **Namita Sharma** and Rashmi Verma, Perfect codes in poset spaces and poset block spaces, *Finite Fields and Their Applications*, vol. 46, 90-106, 2017. **(SCI, IF: 1.478)**
- B.K. Dass, **Namita Sharma** and Rashmi Verma, Characterization of extended Hamming and Golay codes as perfect codes in poset block spaces, *Advances in Mathematics of Communications*, vol. 12, no. 4, 629-639, 2018. **(SCIE, IF:0.734)**
- B.K. Dass, **Namita Sharma**, and Rashmi Verma, MDS and I-perfect poset block codes, *Finite Fields and Their Applications*, vol. 62, 101620 (21 pages), 2020. **(SCI, IF: 1.478)**

Conferences Attended / Paper Presentations

- Participated in the International Conference 'The Legacy of Srinivasa Ramanujan' held at University of Delhi during 17th-22nd December, 2012.
- Participated in the Advanced Instructional School on 'Algebraic Combinatorics' held at ISI, Bangalore during 24th June-13th July, 2013.
- Participated in the 'National Seminar For Research Scholars' organized by Department of Mathematics, University of Delhi during 21st-22nd September, 2013.
- Participated in the 'National Workshop on Cryptology-2013' organised by Scientific Analysis Group, D.R.D.O., Ministry of Defence during 3rd-5th October, 2013.
- Participated in the International Conference on 'Algebraic Geometry and Coding Theory, India' at IIT, Bombay during 2nd-6th December, 2013.
- Presented a paper entitled 'Perfectness of Codes in Generalized Hamming Spaces' at 1st International Conference of Indian Society of Information Theory and Applications (ISITA) held at Sri Sai College of Engineering and Technology, Badhani (Punjab) during 16th-19th January, 2015.

- Presented a paper entitled 'Perfect Poset Block Codes' at Research Scholar Seminar' held at Department of Mathematics, University of Delhi during 23rd-24th February, 2015.
- Participated in the Workshop on 'Research Metrics' organised by Research council and Delhi University Library System, University of Delhi on 26th February, 2015.
- Participated in the Workshop on 'Indian Women and Mathematics' held at Department of Mathematics, University of Delhi during 2nd-4th April, 2015.
- Participated in the Advanced Instructional School on 'Algebraic Geometry' held at ISI, Bangalore during 16th May- 4th June, 2016.
- Delivered an Invited Talk at the 'National Conference on Algebra, Analysis, Coding and Cryptography' organised by University of Delhi during 14th-15th October, 2016.
- Participated in a Capacity Building Workshop on 'e-content creation' in Mathematics on 28th October, 2016 organized by Institute of Lifelong Learning, University of Delhi.
- Presented a paper entitled 'Perfect Codes in Poset Spaces and Poset Block Spaces' at the National Conference on Advances in Applied Mathematics and Statistics held at Mata Sundri College for Women (University of Delhi) during 7th-8th September, 2017.
- Presented a paper entitled 'Metrics in Coding Theory based on Finite Directed Graphs' at the Conference on Analysis and its Applications' held at Dyal Singh College (University of Delhi) during 9th-11th December, 2017.
- Participated in the Teacher's Enrichment Workshop on 'Differential Equations, Mathematical Modeling and Analysis' held at Deshbandhu College, New Delhi during 24th-29th July, 2018.
- Participated in the Teacher's Enrichment Workshop on 'Linear Algebra, Coding Theory and Cryptography' held at Janki Devi Memorial College (University of Delhi) during 18th-23rd November, 2019.
- Participated in the Online Faculty Development Program on 'Research Methodology' organised by Indian Teacher Education Community and Sw. Sunderlal Shivhare Degree College, U.P. during 12th July to 18th July, 2020.
- Participated in National Webinar on "An Overview of Cryptography:
  From Classical to Quantum and Post Quantum" during 18th and 19th July, 2020 organized by Department of Mathematics, School of Physical Sciences, Mahatma Gandhi Central University, Bihar.
- Participated in the Two Week Online Faculty Development Programme on 'Managing Online Classes and Co-creating MOOCs 3.0' organised by Ramanujan College (University of Delhi) during 25th July -10th August, 2020.
- Attended a talk on "A quick introduction to Lie Groups" as part of Berchmans Webinar Series in Mathematics organised by St Berchmans College, Changanassey on 5th September, 2020.
- Attended a talk on "An Introduction to Abstract Nonsense (aka Category Theory)" as part of Berchmans Webinar Series in Mathematics organised by St Berchmans College, Changanassey on 26th September, 2020.
- Participated in One Week Online Faculty Development Programme on 'Applications of Algebra and Number Theory in Network Security' organised by Mahatma Hansraj Faculty Development Centre, Hansraj College (University of Delhi) during 22nd -29th December, 2020.
- Participated in Two day International Colloquium on 'Recent Trends in Mathematical Sciences Theory' (ICRTMS-2021) organised by Department of Mathematics & IQAC, Mata Sundri College for Women (University of Delhi) on November 15-16, 2021.

Research Projects (Major Grants/Research Collaboration) (From 1st July 2017 onwards)

Awards and Distinctions (From 1st July 2017 onwards)
• **Second position holder** in University of Delhi and **first position holder** in Hindu College in B.Sc.(H) Mathematics. • Recipient of **Inspire Fellowship** of DST during graduation and post-graduation. • Won the award for **Best Oral Presentation** in Mathematics at the National Meet of Research Scholars in Mathematical Sciences 2014 organized by University of Jammu. • Recipient of ISCA **Young Scientist Award** for the year 2015 in the section of Mathematical Sciences (Including Statistics).

Association With Professional Bodies
Life Member, Indian Science Congress Association

Other Activities like MOOCs/ Patents etc.

Namita

Signature of Faculty Member